

This listing of claims will replace all prior versions, and listings, of claims in the application:

Amendments to the Claims

The invention claimed is:

1. (Currently amended) A wireless network for transferring a signal from a source device to a destination device positioned remotely from the source device by passing the signal through a plurality of intermediate devices without using a tower, the network comprising:
 - a plurality of intermediate transceivers associated with the intermediate devices and individually operable for reproducing the signal and transmitting the reproduced signal through the intermediate devices until the reproduced signal reaches the destination device;
 - a source transceiver associated with the source device and operable for transmitting the signal to at least one of the intermediate devices;
 - a destination transceiver associated with the destination device and operable for receiving the reproduced signal from at least one of the intermediate devices; and
 - a routing system for determining an optimal routing path for transferring the signal from the source device through a set of the intermediate devices of the plurality of intermediate devices to the destination device, wherein the optimal routing path indicates the set of intermediate devices and is based base, in part, on a prediction of the amount of time an intermediate transceiver in the set of intermediate transceivers will be in communication with the wireless network, wherein the prediction is based on the last state of the wireless network and predefined rules for predicting the location of at least one of the intermediate devices in the wireless network.
2. (Canceled)

3. (Previously presented) The network of Claim 1, wherein the source transceiver transmits the optimal routing path and the signal to the intermediate device.
4. (Previously presented) The network of Claim 1, wherein the routing system further comprises a data management system.
5. (Original) The network of Claim 1 wherein the source device is selected from the group consisting of telephones, mobile phones, laptop computers, handheld computers, desktop computers, televisions, and automobiles.
6. (Original) The network of Claim 1 wherein one of the intermediate devices disconnects from a first portion of the network and reconnects to a second portion of the network.
7. (Original) The network of Claim 1 further comprising a long-range transmission device for connecting the network to a remote network.
8. (Currently amended) A wireless network for transferring a signal from a source device to a destination device positioned remotely from the source device by passing the signal through a plurality of intermediate devices without using a tower, the network comprising:
 - a plurality of intermediate transceivers associated with the intermediate devices and individually operable for reproducing the signal and transmitting the reproduced signal through the intermediate devices until it reaches the, destination device;
 - a source transceiver associated with the source device, wherein the source transceiver is operable for transmitting an optimal routing path for transferring the signal from the source device through at least one of the intermediate devices of the plurality of intermediate devices to the destination device and the signal to at least one of the intermediate devices, wherein the optimal routing path indicates the at least one

intermediate devices, and is ~~based~~ base, in part, on a prediction of the amount of time an intermediate transceiver in the set of intermediate transceivers will be in communication with the wireless network, wherein the prediction is based on the last state of the wireless network and predefined rules for predicting the location of at least one of the intermediate devices in the wireless network.

9. (Previously presented) The network of Claim 8 wherein the routing system further comprises a data management system.
10. (Previously presented) The network of Claim 8 wherein the source device is selected from the group consisting of telephones, mobile phones, laptop computers, handheld computers, desktop computers, televisions, and automobiles.
11. (Previously presented) The network of Claim 8 wherein one of the intermediate devices disconnects from a first portion of the network and reconnects to a second portion of the network.
12. (Previously presented) The network of Claim 8 further comprising a long-range transmission device for connecting the network to a remote network.
13. (Currently amended) A method of transferring a signal from a source device to a destination device positioned remotely from the source device by passing the signal through a plurality of intermediate devices forming a wireless network without a tower, the method comprising:
 reproducing the signal using a plurality of intermediate transceivers associated with the intermediate devices;
 transmitting the reproduced signal through a set of intermediate devices in the plurality of intermediate devices until the reproduced signal reaches the destination device;

identifying an optimal routing path for transferring the signal from the source device to the destination device, wherein the optimal routing path indicates the set of intermediate devices and is based ~~base~~, in part, on a prediction of the amount of time an intermediate transceiver in the set of intermediate transceivers will be in communication with the wireless network, wherein the prediction is based on the last state of the wireless network and predefined rules for predicting the location of at least one of the intermediate devices in the wireless network;

jointly transmitting the optimal routing path and the reproduced signal to the set of intermediate devices using a source transceiver; and receiving the reproduced signal from the intermediate device at the destination device.

14. (Canceled)

15. (Canceled)

16. (Previously presented) The network of Claim 1, wherein an intermediate device having an intermediate transceiver operable for reproducing the signal and transmitting the reproduced signal is dynamically added to the plurality of intermediate devices in the network.

17. (Previously presented) The network of Claim 1, wherein at least one of the intermediate devices in the plurality of intermediate devices is dynamically removed from the network.

18. (Previously presented) The network of Claim 1, wherein at least one of the intermediate devices in the plurality of intermediate devices is in motion for a period of time.

19. (Previously presented) The network of Claim 8, wherein an intermediate device having an intermediate transceiver operable for reproducing the signal and transmitting the reproduced signal is dynamically added to the plurality of intermediate devices in the network.
20. (Previously presented) The network of Claim 8, wherein at least one of the intermediate device in the plurality of intermediate devices is dynamically removed from the network.
21. (Previously presented) The network of Claim 8, wherein at least one of the intermediate devices in the plurality of intermediate devices is in motion for a period of time.
22. (Previously presented) The method of Claim 13, further comprising dynamically adding, to the plurality of intermediate devices in the network, an intermediate device having an intermediate transceiver operable for reproducing the signal and transmitting the reproduced signal.
23. (Previously presented) The method of Claim 13, further comprising dynamically removing at least one of the intermediate device in the plurality of intermediate devices from the network.
24. (Previously presented) The network of Claim 13, wherein at least one of the intermediate devices in the plurality of intermediate devices is in motion for a period of time.